PROCEDURE FOR VERIFICATION OF DEFORMATION INDICATORS
AASHTO T 216 or ASTM D 2435

A. PURPOSE

This method serves to standardize the instrument used to measure change in height of a given specimen with a sensitivity of 0.0025 mm (0.0001 in.).

B. INSPECTION EQUIPMENT REQUIRED

1. A stable base to attach deformation indicator (or digital gages)
2. A set of calibrated gage blocks
3. A leveler

C. PROCEDURE

1. Make certain that all components of the deformation indicator are attached to a suitable base. The digital gages and gage blocks should be treated with care and handled with the use of latex gloves.
2. Ensure that each indicator is attached and secured to a base. There should be no movement between where the gage is attached and the gage itself.
3. With gage attached to base, place leveler on base to ensure base is parallel with the ground and that accurate readings are obtained.
4. Select a range (usually 3-5 different sizes) of gage blocks to standardize the digital gages. Gage blocks may be cleaned using a soft cloth and isopropyl alcohol, if necessary.
5. Carefully place each selected gage block under the deformation indicator to be calibrated and record a series of readings. Usually a range of 3-5 readings are necessary to calculate the average height.
6. Calculate the average height for each of the different size gage block readings. Record results on the specified worksheet.
7. Repeat Step 5, if needed, until the average is at the calibrated height of the gage block and all three values are within the tolerance specified by the test method.

D. TOLERANCE

Consolidation devices shall meet the requirements specified in AASHTO T216-83 (ASTM D 2435).